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IN THE CLAIMS

- 1. (Previously Presented) A method, comprising:
- selectively applying one or more etchants to an edge region of a substrate, said substrate having a central region adjacent to said edge region, wherein a metallization layer stack is formed at least on said central region, said metallization layer stack comprising at least an insulating layer, a barrier layer and a metal layer; and removing unwanted material at least of said metal layer and said barrier layer selectively from said edge region, wherein a first etchant is applied to remove material of said metal layer, and a second etchant is applied to remove material at least of said barrier layer.
- 2. (Original) The method of claim 1, further comprising removing material of said insulating layer selectively from said edge region.
- (Original) The method of claim 1, wherein said one or more etchants comprise a diluted compound of nitric acid and hydrofluoric acid.
 - 4. (Canceled)
- 5. (Previously Presented) The method of claim 1, wherein at least said second etchant comprises said diluted compound of nitric acid and hydrofluoric acid.

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- 6. (Previously Presented) The method of claim 1, wherein said first etchant is substantially devoid of nitric acid.
 - 7. (Original) The method of claim 6, wherein said metal layer comprises copper.
- 8. (Original) The method of claim 1, wherein said substrate is exposed in said edge region during said material removal.
 - 9. (Canceled)
- 10. (Original) The method of claim 1, further comprising applying said etchant at the back side of said substrate to remove unwanted material.
- 11. (Original) The method of claim 1, wherein said metal layer comprises copper and is formed by an electro-chemical process.
- 12. (Previously Presented) A method of reducing contamination of a substrate after formation of a metallization layer stack on said substrate, the method comprising:
 - selectively removing unwanted material from an edge region of said substrate by using a first etchant comprising a diluted compound of nitric acid and hydrofluoric acid as the main component; and

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removing unwanted metal with a second etchant other than said first etchant from said edge region prior to selectively removing unwanted material with said first etchant.

- 13. (Original) The method of claim 12, wherein at least material of a barrier layer of said metallization layer stack is removed.
- 14. (Original) The method of claim 13, wherein dielectric material is removed so as to expose said substrate at said edge region.
- 15. (Original) The method of claim 12, wherein unwanted metal of said metallization layer is removed.
 - 16. (Canceled)
 - 17. (Canceled)
- 18. (Original) The method of claim 12, further comprising removing unwanted material from a back side of said substrate.
 - 19.-22. (Canceled)

23. (Previously Presented) A method, comprising:

selectively applying one or more etchants to an edge region of a substrate, said substrate having a central region adjacent to said edge region, wherein a metallization layer stack is formed at least on said central region, said metallization layer stack comprising at least an insulating layer, a barrier layer and a metal layer, wherein applying said etchant is performed in an substantially air-tight ambient to substantially avoid the emission of gaseous nitric oxides; and

removing unwanted material at least of said metal layer and said barrier layer selectively from said edge region.

- 24. (Previously Presented) The method of claim 23, further comprising removing material of said insulating layer selectively from said edge region.
- 25. (Previously Presented) The method of claim 23, wherein said one or more etchants comprise a diluted compound of nitric acid and hydrofluoric acid.
- 26. (Previously Presented) The method of claim 23, wherein a first etchant is applied to remove material of said metal layer, and a second etchant is applied to remove material at least of said barrier layer.
- 27. (Previously Presented) The method of claim 26, wherein at least said second etchant comprises said diluted compound of nitric acid and hydrofluoric acid.

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28. (Previously Presented) The method of claim 23, further comprising applying said etchant at the back side of said substrate to remove unwanted material.

- 29. (Previously Presented) The method of claim 23, wherein said metal layer comprises copper and is formed by an electro-chemical process.
- 30. (Currently Amended) A method of reducing contamination of a substrate after formation of a metallization layer stack on said substrate, said metallization layer comprising copper, the method comprising:

selectively removing unwanted material from an edge region of said substrate by using a first etchant comprising a diluted compound of nitric acid and hydrofluoric acid as the main component, wherein said selective removal of unwanted material with said first etchant is performed in a protected environment to substantially avoid liberation of gaseous nitric oxide, wherein at least material of a barrier layer of said metallization layer stack is removed.

31. (Canceled)

- 32. (Previously Presented) The method of claim 31, wherein dielectric material is removed so as to expose said substrate at said edge region.
- 33. (Previously Presented) The method of claim 30, wherein unwanted metal of said metallization layer is removed.

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34. (Previously Presented) The method of claim 30, further comprising removing unwanted metal with a second etchant other than said first etchant from said edge region prior to selectively removing unwanted material with said first etchant.